**Cambridge High School Year 13 Physics Phy3 2009**

Below is a list of problems that should be worked through as part of your revision programme.

All problems should be completed by the end of week 2 of Term 4.

A suggestion is you use a 1B5 exercise book, separate from your notes.

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| Standard | Topic | Yr 13 Physics Study Guide | Continuing Physics |
| AS 90526  Mechanical Systems | Translational Motion | P 91, nos. 1, 2, p 95 nos. 3, 4  P 100 nos. 2, 3, 4, 5 | P 19 n0. 12 |
| Free body diagrams / circular motion | P 110 nos. 2, 3, 4, P 114 no. 3  P 118 nos. 2,3 | P 10 no. 8  P12 no. 9  P 25 no. 4 |
| Rotational Motion | P 128 nos. 1, 2, 6 | P 31 no. 1 p 41 nos. 2 - 5 |
| Rotational Inertia | P1 33- 5 nos. 1, 2, 3 |  |
| Angular momentum | P 138 nos. 1, 3, 4, 6 | P 35 no. 4 p 36 no. 5  P 38 no. 6 |
| Rotational energy | P 142 nos. 1, 2, 3 | P 45 no. 8 |
| Simple Harmonic Motion | P 148 nos. 2, 3  P 153 nos. 1, 2, 3  P 158 nos. 2, 3, 4  P 164 nos. 2, 3, 5  P 172 nos. 1, 2, 4 | P 47 no. 1  P 61 no. 4, 5 |
| AS 90523  Waves | Superposition |  |  |
| Standing waves in strings | P 64 no 6  P 70 no2 | P 75 no 8,9 |
| Standing waves in tubes | P 64 no 3, 5 | P 76 no 10, P 80 no 4e  P 81 no 5 |
| Beats | P 71 no 4 f | P 72 no 6,7 |
| Twin source interference | P 54 no 1, 4 |  |
| Diffraction and diffraction grating | P 57 no 1,3,4 | P 82 no 1  P2 96 no 1, 4a  P 98 no 5 c, d, e |
| Doppler | P 77 no 2  P78 no 6 | P 94 no 10  P 99 no 6 a, c |